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part of Application No. 08/525,057, filed September 8, 1995, now abandoned. The contents of each of these applications are incorporated herein by reference.--

***In the Claim:***

Please cancel claims 11-12, 14-15, 18, 20, 25, 27, and 30-33 without disclaimer or prejudice, and add the following new claim:

--36. A method of sequencing a DNA molecule comprising:

- (a) hybridizing a primer to a first DNA molecule;
- (b) contacting said DNA molecule of step (a) with deoxyribonucleoside triphosphates, the DNA polymerase of claim 1, and a terminator nucleotide;
- (c) incubating the mixture of step (b) under conditions sufficient to synthesize a random population of DNA molecules complementary to said first DNA molecule, wherein said synthesized DNA molecules are shorter in length than said DNA molecule and wherein said synthesized DNA molecules comprise a terminator nucleotide at their 5' termini; and
- (d) separating said synthesized DNA molecules by size so that at least a part of nucleotide sequence of said first DNA molecule can be determined.--